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CLAIMS

1. Process of organization of a relational
20 data base to be used on a computer architecture
constituted of at least a processor and some memory,
characterized in that it includes the steps consisting
in :

Elaborate a table of hierarchical
25 expansion ;

Create a thesaurus on each of the columns ;
For each of the words of each of the
thesauruses, create the radix tree of the set of lines
indexes the aforementioned word appears at ;

30 For each of the primary keys, store the
sequence of its values and store a permutation on this
set of values in order to be able to find back a given
value ;

2. Process of organization of a data base
35 according to claim 1 characterized in that it includes
furthermore a step of splitting of the tables of the

data base in a set of sub-tables, each of them containing a given number of lines, the last one excepted.

5 3. Process of organization of a data base according to claims 1 or 2, characterized in that the data base is requested using the SQL (Structured Query Language).

10 4. A system of data base organized according to claims 1, 2 or 3.

15 5. Process of request management of a data base organized according to claims 1, 2 or 3, characterized in that it includes

• A first step of computation of an expansion table ;

15 • Solve the « where » clause by examining the columns of the aforementioned expansion table ;

• Examine the un-reversed images of the columns to solve the clause « select ».

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